AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS:

1. (Original) An apparatus for welding, said apparatus comprising:
a lift mechanism for lifting a personnel platform attached to an end of said lift
mechanism;

a drive system for moving said apparatus, said drive system including a DC power source;

a set of controls mounted on said platform for controlling said drive system and said lift mechanism; and

an electric arc welding system mounted on said personnel platform for creating a DC welding arc between an electrode and a workpiece, said welding system being powered by said DC power source.

- 2. (Original) The apparatus as defined in claim 1, wherein said DC power source of said drive system comprises a 48 volt battery pack.
- 3. (Original) The apparatus as defined in claim 1, wherein said DC power source is supplied with recharging power by an on-board battery charger, said battery charger operative to be plugged into an external AC power source via an extension cord.
- 4. (Original) The apparatus as defined in claim 1, wherein said set of controls is integrated with said welder into a single unit.

- 5. (Original) The apparatus as defined in claim 1, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply comprising a DC down chopper.
- 6. (Original) The apparatus as defined in claim 5, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power source of said drive system.
- 7. (Original) The apparatus as defined in claim 1, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply including a pulse width modulator that at least partially controls said welding current to said electrode and a waveform generator that at least partially controls said pulse width modulator, said power supply creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses.
- 8. (Original) The apparatus as defined in claim 7, wherein said power supply comprises a DC down chopper.
- 9. (Original) The apparatus as defined in claim 8, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power source of said drive system.

- 10. (Original) The apparatus as defined in claim 9, wherein said DC power source of said drive system comprises a 48 volt battery pack.
- 11. (Original) The apparatus as defined in claim 7, wherein said waveform generator drives said pulse width modulator at a frequency of 20 kHz.
 - 12. (Original) An apparatus for welding, said apparatus comprising:
- a Z-shaped articulating boom lift operative to lift a personnel platform attached to a loadreceiving end of said boom lift, said personnel platform comprising a cage and a standing base;

a drive system operative to move said apparatus, said drive system comprising a drive motor and a DC power system;

a set of controls mounted in said cage operative to control said drive system and said articulating boom lift; and

an electric arc welding system mounted in said cage and operative to create a DC welding arc between an electrode and a workpiece, said welding system being powered by said DC power system.

- 13. (Original) The apparatus as defined in claim 12, wherein said DC power system comprises a 48 volt battery pack.
- 14. (Original) The apparatus as defined in claim 12, wherein said DC power system is supplied with recharging power by an on-board battery charger, said battery charger operative to be plugged into an external AC power source via an extension cord.

- 15. (Original) The apparatus as defined in claim 12, wherein said set of controls is integrated with said welder into a single unit.
- 16. (Original) The apparatus as defined in claim 12, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply comprising a DC down chopper.
- 17. (Original) The apparatus as defined in claim 16, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power system of said drive system.
- 18. (Original) The apparatus as defined in claim 12, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply including a pulse width modulator that at least partially controls said welding current to said welding electrode and a waveform generator that at least partially controls said pulse width modulator, said power supply creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses.
- 19. (Original) The apparatus as defined in claim 18, wherein said power supply comprises a DC down chopper.

- 20. (Original) The apparatus as defined in claim 19, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power system of said drive system.
- 21. (Original) The apparatus as defined in claim 20, wherein said DC power system comprises a 48 volt battery pack.
- 22. (Original) The apparatus as defined in claim 18, wherein said waveform generator drives said pulse width modulator at a frequency of 20 kHz.
- 23. (Original) An apparatus for welding, said apparatus comprising:

 a scissor lift operative to lift a personnel platform attached to a load-receiving end of said scissor lift, said personnel platform comprising a cage and a standing base;

a drive system operative to move said apparatus, said drive system comprising a drive motor and a DC power system;

a set of controls mounted in said cage and operative to control said drive system and said scissor lift; and

an electric arc welding system mounted in said cage and operative to create a DC welding arc between an electrode and a workpiece, said welding system being powered by o said DC power system.

24. (Original) The apparatus as defined in claim 23, wherein said DC power system comprises a 48 volt battery pack.

- 25. (Original) The apparatus as defined in claim 23, wherein said DC power system is supplied with recharging power by an on-board battery charger, said battery charger operative to be plugged into an external AC power source via an extension cord.
- 26. (Original) The apparatus as defined in claim 23, wherein said set of controls is integrated with said welder into a single unit.
- 27. (Original) The apparatus as defined in claim 23, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply comprising a DC down chopper.
- 28. (Original) The apparatus as defined in claim 27, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power system of said drive system.
- 29. (Original) The apparatus as defined in claim 23, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply including a pulse width modulator that at least partially controls said welding current to said welding electrode and a waveform generator that at least partially controls said pulse width modulator, said power supply creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses.

- 30. (Original) The apparatus as defined in claim 29, wherein said power supply comprises a DC down chopper.
- 31. (Original) The apparatus as defined in claim 30, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power system of said drive system.
- 32. (Original) The apparatus as defined in claim 31, wherein said DC power system comprises a 48 volt battery pack.
- 33. (Original) The apparatus as defined in claim 29, wherein said waveform generator drives said pulse width modulator at a frequency of 20 kHz.
- 34. (Original) A mobile welding apparatus, said apparatus comprising:

 a vehicle having a DC power source, said vehicle comprising an industrial vehicle or a construction vehicle; and

an electric arc welding system mounted on said vehicle for creating a DC welding arc between an electrode and a workpiece, said welding system being powered by said DC power source.

35. (Original) The apparatus as defined in claim 34, wherein said DC power source comprises a 48 volt battery pack.

- 36. (Original) The apparatus as defined in claim 34, wherein said DC power source is supplied with recharging power by an on-board battery charger, said battery charger operative to be plugged into an external AC power source via an extension cord.
- 37. (Original) The apparatus as defined in claim 34, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply comprising a DC down chopper.
- 38. (Original) The apparatus as defined in claim 37, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power source of said drive system.
- 39. (Original) The apparatus as defined in claim 34, wherein said electric arc welding system has a power supply that supplies welding current to said electrode, said power supply including a pulse width modulator that at least partially controls said welding current to said electrode and a waveform generator that at least partially controls said pulse width modulator, said power supply creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses.
- 40. (Original) The apparatus as defined in claim 39, wherein said power supply comprises a DC down chopper.

- 41. (Original) The apparatus as defined in claim 40, wherein said DC down chopper includes a DC input source, said DC input source comprising said DC power source of said drive system.
- 42. (Original) The apparatus as defined in claim 41, wherein said DC power source of said drive system comprises a 48 volt battery pack.
- 43. (Original) The apparatus as defined in claim 42, wherein said waveform generator drives said pulse width modulator at a frequency of 20 kHz.
 - 44. (New) An electric arc welding apparatus comprising:
 - a welding station;
 - a battery for providing a DC battery voltage;
- a high switching speed converter coupled to said battery for converting said DC battery voltage to a signal conditioned for welding; and
- a controller coupled to said welding output device with a feedback from said welding station to control said conversion.
- 45. (New) The apparatus as defined in claim 44 wherein said battery and said converter are movable on a wheeled carriage.
- 46. (New) The apparatus as defined in claim 45 wherein said battery is supplied with recharging power by a battery charger.

- 47. (New) The apparatus as defined in claim 46 wherein said battery charger is operative to be plugged into an external AC power source via an extension cord.
- 48. (New) The apparatus as defined in claim 44 wherein said battery is supplied with recharging power by a battery charger.
- 49. (New) The apparatus as defined in claim 48 wherein said battery charger is operative to be plugged into an external AC power source via an extension cord.
- 50. (New) The apparatus as defined in claim 44 wherein said high switching speed converter comprises a DC down chopper.
- 51. (New) The apparatus as defined in claim 50 wherein said DC down chopper includes a pulse width modulator that at least partially controls said signal and a waveform generator that at least partially controls said pulse width modulator.
 - 50. (New) A device for electric arc welding, said device comprising:
 - a battery;
 - a battery charger;
 - a welder driven by said battery; and
 - a wheeled carriage supporting said battery, said battery charger and said welder.
- 51. (New) The device as defined in claim 50, wherein said battery charger is operative to be plugged into an external AC power source via an extension cord.

- 52. (New) The device as defined in claim 51, wherein said welder includes a power supply that supplies welding current between an electrode and a workpiece.
- 53. (New) The device as defined in claim 50, wherein said welder includes a power supply that supplies welding current between an electrode and a workpiece.
- 54. (New) The device as defined in claim 53, wherein said power supply comprises a DC down chopper.
- 55. (New) The device as defined in claim 54, wherein said power supply includes a pulse width modulator that at least partially controls said welding current to said electrode and a waveform generator that at least partially controls said pulse width modulator, said power supply creating a series of current pulses that constitute a welding cycle representative of a current waveform, said pulse width modulator controlling a current pulse width of a plurality of said current pulses.